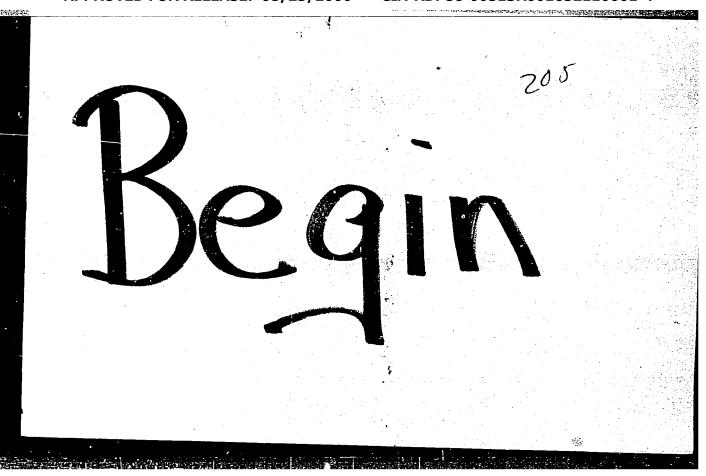
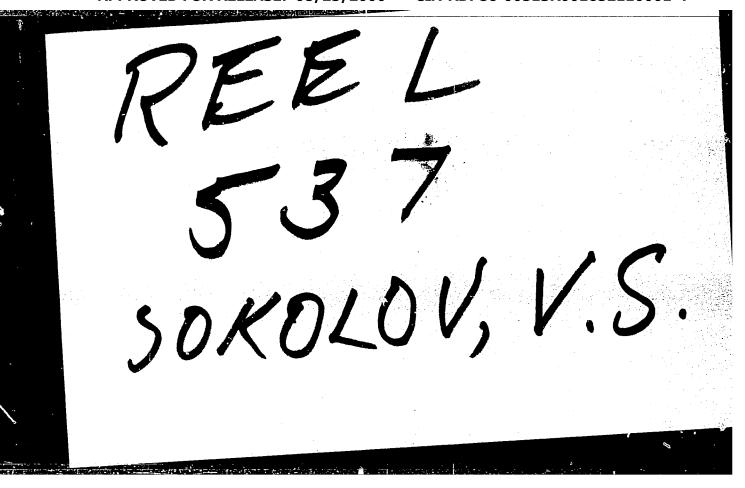
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"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652110001-4



- 1. SOKOLOV, V. S., Eng.
- 2. USSR (600)
- 4. Metals-Testing
- 7. Supersonic defectoscopy of metals. Elek. sta. 23, No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SOKOLOV, V.S. inzhener, nachal'nik; MOLOKANOV, K.P., doktor meditsinskikh nauk; LETAVET, A.A., professor, devstvitel'nyy chlen akademii meditsinskikh nauk SSSR, direktor.

Use of television in roentgenology. Vest.rent.i rad. no.2:54-56 My-Ap

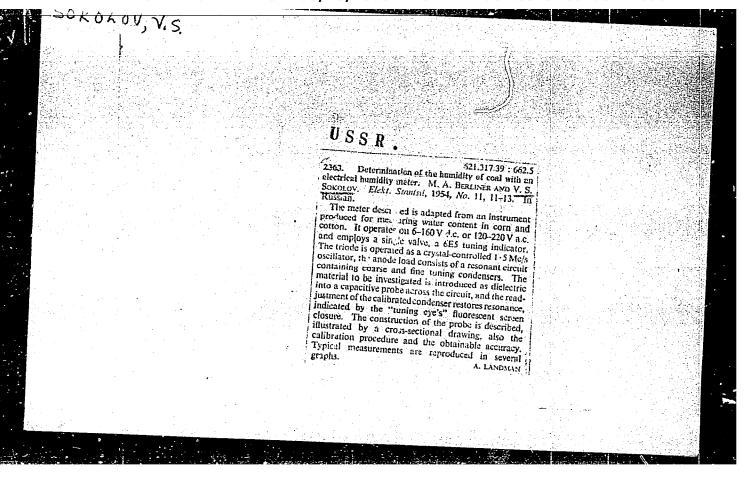
1. Institut gigiyeny truda i professional nykh zabolevaniy akademii meditsinskikh nauk SSSR (for Molokanov and Letavet). 2. Akademiya meditsinmetallov Ministerstva elektrostantsiy (for Sokolov).

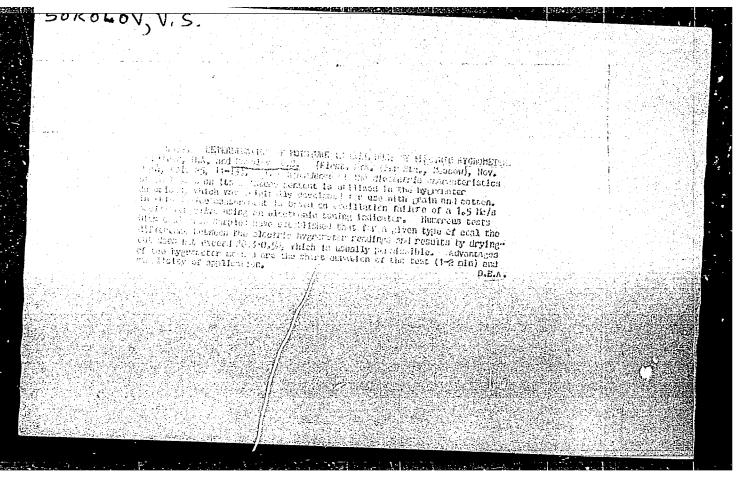
(Diagnosis, Radioscopic) (Television)

- 1. BOXOTOV, Y. D., Tag.
- 2. USR (600)
- 4. Ultrasonic Testing
- 7. Supersonic detection of defects in materials without surface processing. Elek. sta., 24, No. 1, 1953.

States hf ultrasonic pulse defectoscopes cannot detect large defects in metals, especially when in motion. Says instruments operating on 50-600 kc were developed at Central Metals Testing Station, State Inspectorate for Steam Boilers. Gives photos of 2 instruments, 1st in 2 units (transmitter, receiver) with separate sectifiers, 2d in 3 units (transmitter, receiver, rectifier) plus circuit diagram of 2d. Mentions applications in sheet-rolling mills, tire plants.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.



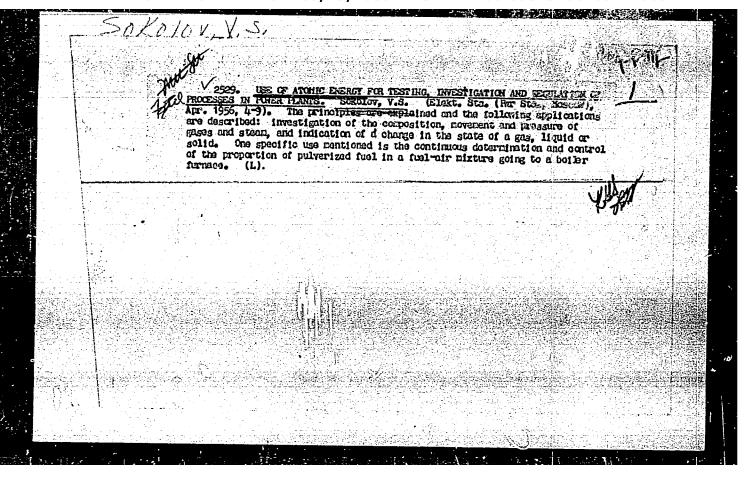


KARDASH, Ye.G., inzhener; SOKOLOV, V.S., inzhener.

Instrument for controlling the soil content in dredged material.

Elek.sta. 25 no.2:18-19 F '54. (MIRA 7:2)

(Measuring instruments) (Dredging)



SOKOLOV, V.S., rod.; OZERETSKAYA, A.L., red.izd-va; MIKHAYLOVA, V.V., tekhn.red.

[Standaris for macrostructure control of butt joints made by arc welding of carbon steel in boilers] Etalony dlia makrostrukturnogo kontrolia stykovykh shvov, vypolnennykh dugovoi svarkoi, uglerodistykh kotel nykh stalei. Moskva, Gos. nauchno-tekhn.izd-vo litry po chernoi i tsvetnoi metallurgii, 1957. 16 p. (MIRA 11:4)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru. TSentral'naia nauchno-isaledovatel'skaia laboratoriya.

(Steel--Welding) (Boilers)

PHASE I BOOK EXPLOITATION 448

Sokolov, Vasiliy Stepanovich

- Defektoskopiya materialov (Nondestructive Testing and Inspection of Materials) Moscow, Gosenergoizdat, 1957. 239 p. 7,000 copies printed.
- Ed.: Korikovskiy, I.K.; Tech. Ed.: Medvedev, L.Ya.; Scientific Eds. of the Book: Entin, S.D. of Part 1; Totochenko, L.K. of Part 2; Yakubovich, T.S. of Part 3; Sinitsyn, S.N. of Part 4.
- PURPOSE: This book is intended for engineers and technical personne? and may also be useful to students of technical institutes and persons specializing in nondestructive testing of materials.
- COVERAGE: This is a practical manual on nondestructive testing and inspection of materials. The author attempts to compile

Card-1/10_

Nondestructive Testing and Inspection of Materials 448

in one book the most highly developed and widely employed methods industry for detecting flaws in materials and finished products. He presents descriptions of various new ideas and gives schematic diagrams of newly developed equipment which, although not widely used in industry, has been successfully tested in laboratories. Detailed information on magnetic, penetrant, ultrasonic and radiographic methods of inspection is given. The first part of this book deals with magnetic inspection which includes magnetic-particle and magnetic-tape recording methods. According to the author the magneticparticle inspection method is now widely used in aircraft and heavy machinery industries. The author states that general research work on magnetic-particle inspection was conducted by the magnetic laboratory of the Central Scientific Research Institute of Technology and Machinery, under the direction of N.I. Yeremin, and by the All-Union Scientific Research Institute of Aviation Materials, under the direction of A.V. Zhigadlo. Extensive research in this field is currently being conducted by the Central Scientific Research Laboratories of the Committee for the Control of Industrial Safety and Mine Inspection, USSR, where a number of new types of magnetic

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Nondestructive Testing and Inspection of Materials 448

M HENDS CHECKET STEERING VINNER STREET STEERING THE STREET STREET STREET STREET

flaw detectors has been developed. The magnetic-tape recording flaw detector used in inspection of welded connections, illustrated on pages 20-21, was developed by the All-Union Scientific Research Institute for Construction in the Petroleum and Gas Industry. Illustrations of several other types of magnetic flaw detectors are also given. The author concludes that the sensitivity of magnetic inspection depends on such factors as methods of magnetization, magnetizing current, depth of flaw and the size and conditions of ferromagnetic particles, and is limited to magnetic materials only. The inspection of nonmagnetic materials is often accomplished by employing fluorescent-penetrant and dye-penetrant methods. These methods of inspection are described in the second part of the book. The description includes detailed information on the techniques and equipment used in penetrant methods of inspection. The author states that the sensitivity of these methods is very high but that he lacks sufficient information to draw a conclusion about the industrial value of this method. Part three of the book summarizes the

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Nondestructive Testing and Inspection of Materials 448

developments of ultrasonic methods of inspection in the Soviet Union and describes principles of operation of ultrasonic flaw detectors and their practical applications. Numerous illustrations and descriptions of various types of ultrasonic flaw detectors are presented. The descriptions also include flaw detectors used in the aircraft industry. These are types 86-IM, 86-IM-2 and 86-IM-3. The fourth part of the book deals with radiographic inspection. It includes X-ray, gamma-ray, Betatron, and fluorescent and photofluorescent methods. The procedures and equipment used in these methods of inspection are described in detail. Safety precautions and health measures in radiographic inspection using X-ray and gamma rays are discussed. There are 153 Soviet references.

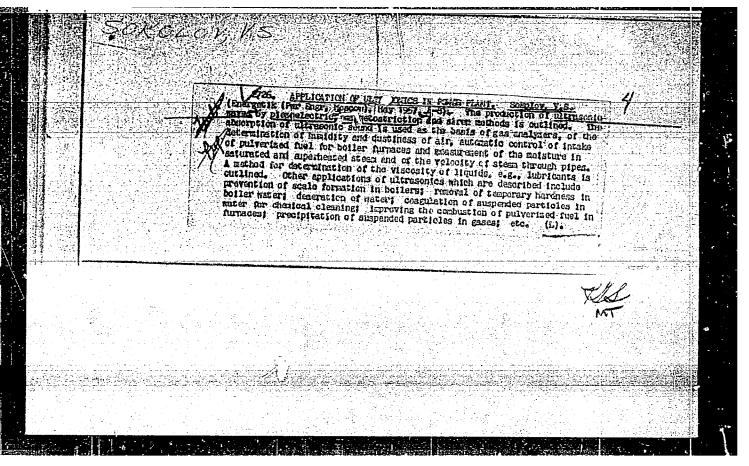
TABLE OF CONTENTS:

Part I. Magnetic Inspection

1-1 General observations

Card 4/-10-

5



SOKOLOW W.S. inshener.

Iemisation water level indicators used in steam beilers. Besop. truda v prem. 1 no.2:24-26 F '57. (MIRA 10:4)

1. TSentral'maya nauchne-issledevatel'skaya laberatoriya Gesgertekhnad-sera SSSR.

(Beilers -- Sefety appliances) (Liquid level indicators)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652110001-4"

Mari - Saya Maria Maria

Safety measures during the examination of metals with games rays.

descritude v orom. I now 1/2-20 0 1/7. (MERA 10:9)

1. Tientral'mays nauchine-hashedovetal'skays laboratoriys
Goscortekhundzers SSSR.
(Radiology, Industrial)

AUTHOR

Sokolov, V.S.

32-8-59/61

TITLE

Critical Remarks on the Practical Handbooks on the Luminescence

Defectoscopy of the Metals.

(Kriticheskiye zametki o prakticheskikh rukovodstvakh po defektos-

kopii metallov prosvechivaniyem - Russian)

PERIODICAL ABSTRACT

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 8, pp 1011-1014, (U.S.S.R.)

handbooks are named as In this connection the following Soviet the best: Trapeznikov, A.K., "X-Ray Defectoscopy", (1948); Rumyantsev S.V. and Grigorovich, A.Yu., "Control of quality of the metals with gamma rays" (1954); Tatochenko, L.K. and Medvedev S.V., "Industrial gammadefectoscopy" (1955) and an encyclopaedia of the Academy of Science of the U.S.S.R. "Gammadefectoscopy". The books mentioned

are, however, already sold out, but are still in demand. In the article it is said that the field of X-ray defectoscopy is in the U.S.S.R. unnecessarily separated from that of defectoscopy with gamma rays although there is practically no difference. The fact of the separation led to the opinion that the application of gamma rays was something "modern" and more in the foreground, whereas roentgenology was neglected. This manifested itself in the most recent scientific works on defectoscopy, but also in the industry of the U.S.S.R., which fact is "regretted" here. Thus, the Moscow X-Ray Works have stopped constructing the X-ray apparatus of 1-2 million V all together, and changed over to the production of the gamma plants GUP - Co60, inspite of the fact that the Soviet

Card 1/2

PHASE I BOOK EXPLOITATION

sov/1279

25(1) (6)

Sokolov, Vasiliy Stepanovich, and Sergey Nikolayevich Sinitsyn

(Ultrasonics in Industry) [Moscow] 105 p. 17,000 copies printed. Ulitrazvuk v promyshlennosti Moskovskiy rabochiy, 1958.

PURPOSE: This booklet is intended for engineers and technicians work-Ed.: Gurov, S.; Tech. Ed.: Yakovleva, Ye. ing in the field of industrial ultrasonics.

The booklet covers fundamental principles of ultrasonics and industrial applications of ultrasonics for such processes as: machining hard materials, non-destructive testing, checking of manufacturing processes cleaning posts machining hard materials, non-destructive testing, checking of manufacturing processes cleaning posts machining hard materials, and machining nard materials, non-destructive testing, checking of manufacturing processes, cleaning parts, measurement of velocity and flow of fluids, and other purposes. Various types of ultrasonic transducers and flow-detecting instruments are described. No personalities are mentioned where are no references COVERAGE: Bonalities are mentioned. There are no references.

TABLE OF CONTENTS:

card 1/3

SOKOLOV, V.S., insh.

Modern wethods for the detection of defects in metals used in power engineering equipment. Bezop. truds v prom. 2 no.1:19-22

Ja '58.

(Metals--Testing)

SOV/96-59-10-4/22

Kostynk, A.G. (Cand.Tech.Sci.) and Sokolov, V.S. (Engineer) AUTHORS:

TITLE: Electrical Modelling of Temperature Distribution in

Turbine Rotors

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PERIODICAL* Teploenergetika, 1959, Nr 10, pp 22-27 (USSR)

ABSTRACT: The axially-symmetrical temperature field of a turbine rotor may be modelled for calculation by an integrator type EGDA: it is sufficient to simulate a wedge-shaped longitudinal sector of the rotor. For use with integrator type EGDA-6/53 the model may be made of several layers of electrically conducting paper, pasted together as indicated in Fig 1. The method of selecting the radius of each layer of paper is described with reference to Fig la and a simple formula is given. order to check that a suitable number of pieces of paper have been used and to determine the accuracy of the method, the results of temperature field modelling are compared with a standard based on accurate calculations of steady-state thermal conductivity for several simple Card solids of rotation. For example, an accurate solution of the equations of thermal conductivity for a solid cylinder

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with the boundary conditions indicated in Fig 2 may be

SOV/96-59-10-4/22
Electrical Modelling of Temperature Distribution in Turbine Motors

represented by a series of the form shown in Eq (1). Results obtained from the model are compared with theoretical values derived from Eq (1) in Figs 3 and 4. Fig 3 shows the temperature distribution across a disc at the centre of the cylinder, and Fig 4 the temperature distribution along the axis of the cylinder, compared with temperature values found for a four-layer model. A method of modelling the roots of turbine blading is then considered. When the blades are fixed into an annular slot it is easy to model the temperature field by selecting a strip of appropriate width and length to represent the resistance of the working part of the blading and to represent the rotor and fixing zone by means of a multi-layer wedge, as shown in Fig 1. When the ends of the blades are fitted into slots in the disc the rotor is not axially symmetrical in the fixing zone and, therefore, the temperature field of the fixing zone and of the actual rotor must be considered separately. An approximate method of modelling in this case is described on the assumption that the temperature field in the blade fixing zone is approximately uniform. It is well established that the main heat flow in the root

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SOV/96-59-10-4/22

Electrical Modelling of Temperature Distribution in Turbine Motors fixing zone is directed from the periphery towards the centre. It is accordingly possible to determine the parameters of the equivalent plane model of a blade root fixing for which the law of change of temperature in a radial direction is close to the real one. Since the main heat flow in the root fixing is radial, it is necessary that the radial thermal conductivity of the fixing details should be the same for the actual part and for its plane model. This condition is given by Eq (2), which may be used to calculate the sections of the plane model at the most important sections shown in Fig 5. Fig 5 also gives in dotted lines the outline of the plane model and in chain-dotted lines the outline of the actual fixing. The requirement that the quantity of heat passing through the corresponding boundary surfaces of the actual root fixing and the plane model should be the mame is represented by Eq (3) which is used to define the heat-transfer coefficient at the model surfaces. The conditions at the boundary surface between the root and the rotor are not given. To establish them and to completely determine the temperature field both in the root and in the rotor, it

Card 3/5

SOV/96-59-10-4/22

Electrical Modelling of Temperature Distribution in Turbine Motors is first necessary to determine the equivalent parameters of the root fixing which governs heat flow from the blade root to the rotor. These equivalent parameters are the nominal heat-transfer coefficient and the nominal temperature of the medium that govern the heat flow from the blade root to the rotor through the section considered. The method of determining these equivalent parameters is then described. The heat flow to the rotor through the surface considered is given by Eq (4), from which Eq (6) is easily derived, and this is used to calculate the equivalent parameters. From these parameters it is possible to determine the boundary conditions on the electrical model of the rotor near the blade root fixings and so to determine the temperature field of the whole rotor. Formulae used in the procedure are derived. Heat exchange through gaps left between the blade root and the rotor is then considered. Formulae (11) are given for heat removed by the air from the blade roots and hence the heat flow formulae (13) to Card (15) are derived. The application of the results to 4/5 modelling is briefly explained.

SOV/96-59-10-4/22

Electrical Modelling of Temperature Distribution in Turbine Motors Models comprising three or four layers give sufficiently

accurate results with electrical integrator type EGDA-6/53. The method is applicable to all types of

5/5 rotor.

Card

There are 6 figures and 3 Soviet references.

ASSOCIATION: Moskovskiy energeticheskiy institut

(Moscow Power Institute)

GUSAROV, N.N., inzh. Prinimali uchastiye: ANDREYEV, V.V., inzh.;
RABOTNOV, B.A., inzh.; FEDOTOV, L.Ye., inzh., nauchnyy red.
BALDIN, V.A., retsenzent; BRODSKIY, A.Ya., kand.tekhn.nauk,
retsenzent; SAVALOV, I.G., kand.tekhn.nauk, retsenzent; LEVI,
S.S., kand.tekhn.nauk, retsenzent; SOKOLOV, V.S., kand.tekhn.
neuk, retsenzent; LEBEDEV, Yu.I., retsenzent; RAZUMOVA, E.D.,
inzh., retsenzent; DOLGIKH, V.G., inzh., retsenzent; MAKSIMOV,
K.G., red.izd-vs; PUL'KINA, Ye.A., tekhn.red.

[Provisional instructions on using gamma rays in controlling wolded joints of reinforcements in reinforced-concrete construction elements] Vremennais instruktsiis po kontroliu svarnykh soedinenii armatury zhalezobetonnykh konstruktsii prosvechivaniem gamma-luchami. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 46 p.

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva elektrostantsiy. Tekhnicheskoye upravleniye. 2. TSentral'nyy nauchnoissledovatel'skiy institut stroitel'nykh konstruktsiy (for Baldin, Brodskiy). 3. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Baldin).4. VNIIOMS (for Savalov, Levi). 5. TSentral'naya nauchno-issledovatel'skaya laboratoriya Gosgortekhnadsora (for Sokolov). 6. Zamestitel' glavnogo sanitarnogo inspektora, Sanitarnaya inspektsiya SSSR (for Lebedev). 7. TsNIP Ministerstva stroitel'stva elektrostantsiy (for Razumova). 8. Trost Sevzapenergomontazh (for Dolgikh).

(MIRA 14:2)

(Gamma rays .- Industrial applications) (Reinforcing bars -- Welding)

PHASE I BOOK EXPLOITATION

SOV/4267

Sokolov, Vasiliy Stepanovich

Kontrol' bez razrusheniya detaley (Nondestructive Inspection of Machine Parts) [Moscow] Moskovskiy rabochiy, 1960. 94 p. 5,500 copies printed.

Ed.: S. Gurov; Tech. Ed.: S. Pavlova.

PURPOSE: This book is intended for technical personnel dealing with nondestructive inspection of machine parts.

COVERAGE: The author discusses modern methods of detecting subsurface defects in machine parts. He describes nondestructive inspection methods and explains their application in industry. The X-raying of materials, ultrasonic flaw detection, magnetic and electric methods of inspection, and the luminescence method of flaw detection are discussed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

X-Raying of Materials Card 1/3

7

PHASE I BOOK EXPLOITATION

SOV/5772

Sokolov, Vasiliy Stepanovich

Izotopy v avtomatike (Isotopes in Automation) [Moscow] Moskovskiy rabochiy, 1961. 126 p. 8000 copies printed.

Ed.: S. Gurov; Tech. Ed.: S. Pavlova.

PURPOSE: This book is intended for the general reader interested in the applications of radioactive isotopes to automation.

COVERAGE: The book discusses in simple, popular language the applications of radioactive isotopes in process instrumentation which facilitate the automation of many industrial processes in different branches of the Soviet economy. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

What Are Isotopes?

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PHASE I BOOK EXPLOITATION

SOV/6001



Sokolov, Vasiliy Stepanovich

- Defektoskopiya materialov (Detection of Flaws in Materials) 2d ed., rev. Moscow, Gosenergoizdat, 1961. 326 p. 8000 copies printed.
- Scientific Eds.: T. Ya. Gorazdovskiy, Candidate of Technical Sciences, N. V. Khimchenko, Candidate of Technical Sciences, and L. K. Tatochenko, Candidate of Technical Sciences; Ed. of Publishing House: I. L. Iglitsyn; Tech. Ed.: G. Ye. Larionov,
- PURPOSE: This manual is intended for technical personnel and may also be useful to students at schools of higher and secondary technical education who are studying flaw-detection methods.
- COVERAGE: The manual deals with nondestructive methods for the control of material quality in industry. The most widely used methods of flaw detection (including the magnetic, dye-penetrant, fluorescent, ultrasonic, x-ray, and -ray methods) are described. Information is given on flaw detectors and flaw-detection methods which are currently being used or will shortly find wide practical Card 1/2

SOKULOV, V.S

PHASE I BOOK EXPLOITATION

sov/5486

- Vsesoyuznoye soveshchaniye po wnedreniyu radioaktivnykh izotopov i yadernykh izlucheniy v narodnoye khozyaystvo SSSR. Riga, 1960.
- Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy soveshchaniya v 4 tomakh. t. 1: Obshchiye voprosy primeneniya izotopov, pribory s istochnikami radioaktivnykh izlucheniy, radiatsionnaya khimicheskaya i neftepererabatyvayushchaya promyshlennost (Radiokhimiya, khimicheskaya) i neftepererabatyvayushchaya promyshlennost (Radiokhimiya, khimicheskaya) i neftepererabatyvayushchaya promyshlennost (Radiokhimiya, khimicheskaya) i neftepererabatyvayushchaya promyshlennost (Radiokhimiya,
 - Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy krmitet Soveta Ministrov SSSR, and Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii.
 - Ed. (Title page): N.A. Petrov, L.I. Petrenko and P.S. Savitskiy; Eds. of this Vol.:
 L.I. Petrenko, P.S. Savitskiy, V.I. Sinitsin, Ya. M. Kolotyrkin, N.P. Syrkus
 and R.F. Romm; Executive Eds.: Ye. S. Levina and B. F. Titskaya; Tech. Ed.:
 E.A. Mukhina.
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---- accompany some of the

Radioactive Isotopes (Cont.)	sov /5486
TABLE OF CONTENTS:	
GENERAL PROBLEMS OF THE USE OF ISOTOPES	
Savitskiy, P.S. [Present] State and Prospects of the UR Radioactive Isotopes and Nuclear Radiation in the Nation	tilization of nal Economy 7
Gayle, G.I., and V.P. Dubovich. Experience Obtained in Isotopes and Nuclear Radiation in Enterprises of the Convational Economy of the Latvian SSR	Introducing cuncil of the
Mikheyev, G.F. Economic Efficiency of the Industrial Usactive Isotopes and Nuclear Radiation	se of Radio- 21
Scholov, V.S. Prospects of Using Instruments and Appara Radioactive Radiation Sources for the Automation of Proc Processes in the Individual Branches of Industry	atus With fuction 35
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27139 S/119/61/000/009/002/003 D231/D304

AUTHOR:

Sokolov, V.S., Engineer

TITLE:

Up-to-date methods of defectoscopy

PERIODICAL:

Priborostroyeniye, no. 9, 1961, 16-20

TEXT: This article describes the following methods of defectoscopy: the X- and gamma-ray, ultrasonic, magnetic electromagnetic, eddy current and luminescence method. In 1960 the "Mosrentgen" factory commenced production of a portable 120 kV X-ray apparatus which enabled the application of radioscopty methods in factories. A 400 kV apparatus ("PYP-3") ("RUP-3") suitable for X-raying articles of 100 mm wall thickness. In the USSR the betatrons used in industry develop 10, 15, 25, 30 and 50 million electron-volts. They are used in the material quality control of steel articles of up to 500 mm wall thickness. The Tomsk Polytechnic Institute developed a "stereobetatron" emitting two X-ray beams at an angle to each other. This design enabled the search and location of defects in metal

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Up-to-date methods of defectoscopy

articles. It is not, however, widely used. The high voltage X-ray apparata are being designed. As far as the radioactive sources for industrial purposes are concerned the gamma-emitting cobalt-60 was chiefly used previously. Recently, however, isotopes cesium-137, iridium-192 and thulium-170 have been widely used. In addition, experiments with europium-152-154, selenium-75, strontium-90 and others were carried out. Strontium-90 emits beta-particles the retardation of which in substances of the type: lead, uranium etc. produces wide spectrum energy X-rays having a maximum in the region of 100 kiloelectron-volts. They are used for the purpose of X-raying thin-walled articles. P.V. Timofevev and V.V. Sorokina of the All-Union electrotechnical institute designed an electron-optical transducer which is very useful in the mechanization and automation of material control by X-ray method. Luminescent radiation indica- . tors may prove very useful in the automation of the process control. The ray-beam, having passed through the object under test, acts on a luminescent crystal and brings about its luminescence. The crystal, being in contact with a photoelectric multiplier \$EY (FEU),

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Up-to-date methods of defectoscopy

produces electric impulses which are recorded on apparatus, type P-4 (R-4) is based on this principle of operation. The ultrasonic method of quality control is based on the reflection of ultrasonic oscillations from the boundary of two mediums having different acoustic properties. An automatic ultrasonic "immersion" system for the detection of defects in rolled sheers was developed in Frofessor S.Ya. Sokalov's electrotechnical laboratory of the Leningrad Electrotechnical Institute im. Lenin. In this system, the sheets under test enter a water bath and pass between the emitting and receiving piezoelectric transmitter plates. The electrical impulses from the plate are amplified and recorded on an electrothermal paper. Thus a visible image of defects is obtained in a required scale. The electric impulses are also passed to an automatic sorting device. An "immersion" ultrasonic system was developed in LHMYTMAW (TsNIITMASh) for inspection of thin-walled tubes of small diameter. In order to convert the ultrasonic oscillations into a visible image a special very sensitive electronic-acoustic transducer was designed. The eddy current method of quality con-

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27139 S/119/61/000/009/002/003 D231/D304

Up-to-date methods of defectoscopy

trol is based on the formation of eddy currents in a metal under test and measurement of their effect on the exciting coil. Due to the high sensitivity of eddy currents to changes in physical, chemical and other properties of materials and to the absence of contacts this method received great attention. Several types of eddy current defectoscopes have been developed in the USSR, viz: types SMM3-1 (EMID-1), EMID-2, EMID-3 and EMID-5. For the purpose of quality control of welded joints in pipes and boilers a magnetographic method has been devised. In this method of defectoscopy the results are recorded on a magnetic tape. The method is based on the utilization of the magnetic field dispersion in a defective region. The scattered magnetic flux formed by the defective area is recorded. One of the disadvantages of this method is the likelihood of receiving false signals if the tape is not close enough to the surface of the welded seam. HOWCT (NIIST), Moscow has developed a method for converting electrical impulses obtained from the tape into a visible image similar to that obtained in the ultrasonic method of defectoscopy. There are 8 figures.

Card 4/4

SOKOLOV, V. S., Cand Tech Sci (diss) -- "Investigation of the effect of design parameters of a TsNIDI chamber on the indexes of the working process of a four-stroke transport Diesel". Leningrad, 1960. 15 pp (Min Higher and Inter Spec Educ RSFSR, Leningrad Polytech Inst im M. I. Kalinin), 150 copies (KI., No 11, 1960, 134)

BAYKOV, B.P : SOKOLOV, V.S.

Practice of the Central Research Institute of Diesel Engines in constructing experimental stands for investigating operating processes of diesel engines. TRUDY TSNIDI no.39:23-38 '60. (MIRA 15:8)

(Diesel engines--Testing)

IVANCHENKO, N.N.; SOKOLOV, V.S.; STANKEVICH, V.V.

Pressure charging of diesel engines having chambers in pistons.

Trudy TSNIDI no.40:67-80 '60. (MIRA 15:8)

(Diesel engines)

SOKOLOV, V.S., inzh.; LAZAREV, A.A., inzh.; POPOV, V.N., kand.tekhm.nauk; TARASOV, A.N., inzh.; POTAPOV, Yu.A., inzh.

Results of using the TSNIDI combustion chamber for KDM diesel tractors. Trakt. i sel'khozmash. 30 no.9:15-17 S '60. (MIRA 13:9)

1. TSentral'nyy nauchno-issledovatel'skiy dizel'nyy institut (for Sokolov). 2. Chelyabinskiy traktornyy zavod (for Potapov).

(Diesel engines)

BORDUKOV, V.T.; SOKOLOV, V.S.; LAZAREV, A.A.; POPOV, V.N.

Gas-turbine pressure charging of KDM diesel tractor engines. Trakt.

1 sel'khosmash. 30 no. 12:5-8 D'60. (MIRA 13:12)

1. TSentral'nyy nauchno-issledovatel'skiy dizel'nyy institut,
Leningrad (for Bordukov, Sokolov). 2. Chelyabinskiy traktornyy
zavod (for Lazarev, Popov).

(Diesel engines)

IVANCHENKO, N.N., kand.tekhn.nauk; SCNOLOV, V.S., kand.tekhn.nauk

Adjusting the performance of diesel engines with a combustion chamber designed by the Central Research Institute for Diesel Engine. Trakt. i sel'khozmach. 31 no.3:5-6 Mr '61.

(MIRA 14:3)

(Dissel engines—Testing)

BAYKOV, B.P., kand.tekhn.nauk; BORDUKOV, V.T., inzh.; SOKOLOV, V.S., kand.tekhn.nauk; LAZERV, A.A., inzh,; POFOV, V.N., knad.tekhn.nauk; SUKHOV, Ye. I., inzh.

Results of turbocharging of the KIM-100 engines. [zv.vys.ucheb. (MIRA 15:10)]

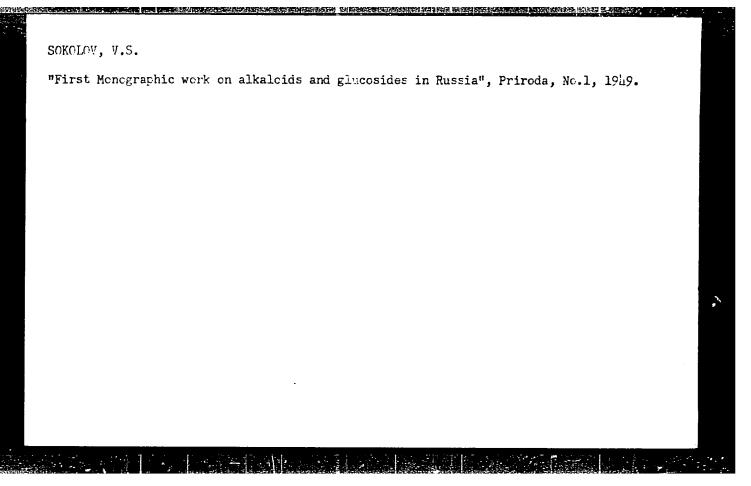
1. TSentral'nyy nauchon-issledovatel'skiy dizel'nyy institut i Chelyabinskiy traktornyy zavod.

(Tractors—Engines—Superchargers)

SCHOLOV, V.S. & TOCHOROV, A.A.

"Entanical Institute damed After V.L. Komarov of the Academy of Sciences of USSR;" Leningrad 1917. 1 copy. Descriptive pamphlet.

SOKOLOV, V. S.		PA5/49T74
	USSR/Medicine - Plants Medicine - Cold, Effects	Jul 48
	"Effect of Temperature on the Alkaloi Plants," V. S. Sokolov, $2\frac{1}{2}$ pp	d Content of
	"Priroda" No 7	
	Briefly describes effects of temperat on the alkaloid content of plants dur of vegetation.	cures below 0° C ring final stages
		5/49 T 74



32167. SOKOLOV, VLADIMIR SERGE-EVICH, 1905— . Alkaloidonosnye rastenifa SSSR. Moskva-Leningrad, Izd-vo Akad. nauk SSSR, 1952. 378 p. illus., text map. (Akademifa nauk SSSR. Botanicheskii institut. Monografii po syr'evym gruppam rastenii) approx. 900 refs. Title tr.: Alkaloid plants of the U.S.S.R.

Includes (p. 159-282) a systematic list of about 500 species, native to northern regions of the U.S.S.R. Brief of head of title; descriptive notes and data on alkaloid AKAL Set 559

it head of title; ARH. Sei SSSR. BETANICHESKIY INST.

32/67 Contd

industry and geographic distribution are given. Alkaloid plants arranged by the regions of the Flora SSSR are presented, p. 282-309. This section includes a list of ten arctic plants (table 53, p. 283), some scattered species in northern regions of European U.S.S.R. and Siberia, and at least ten species native to Kamchatka Peninsula (table 58, p. 301-303). Indexes of the families and Russian and Latin names are appended. Copy seen: MH-A.

SCHOLOV, V. J.

20036 SOHLOV, V. J. Sushehustivuet li vaalmonavisimost' menhiu alkaloidenesmost'yu i afirmo-masilielmost'yu rasteniy? Pripeda, 1949, No. 7, S. 60-62.

Bibliogr: 13 Nauv.

30: Letopis, No. 32, 1949.

til store en skriget til skrivet er filteren	* <u>*</u>		155T10	**	
SOKOLOV, V. S.	USSR/Biology - Plants (Contd) Dec alkaloidal plants. Says alkaloid content of plant may serve as means of determining morphological classification.	Romarov, 18 May 49. Mentions Romarov, 18 May 49. Mentions ning plants have been found veveterinary, and agricultural nuches of industry (dye industry etc). Points out studiestry, etc). Points out studiestry, etc).	Alkaloid Planus "Some Problems on the Alkaloid Content of Planus," V. S. Sokolov, 1 p "Priroda" No 12	USSR/Biology - Plants	
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		e santation element		I_{i} , $i \in \mathbb{N}$	

SOKOLOV, V.S.: BALOBIN V.N.

Arboriculture

Growth of tree and shrub varieties in stands of varying density. V.N. Balobin, Y.S.Sokolov Agrobiologiia No3, 1952. Kafedra darvinizma Moskovskogo gosudarstvennogo universitata imeni M.V. Lomonosova

SO: Monthly List of Russian Accessions, Library of Congress,

Sept 52

1668, Uncl.

Honeysuchle accelerated stratification of the servic of Tatar hor gracele, Les. Phoz., 5, No. 3, 1952.

Nonthly List of Dussian Accessions, Library of Congress, Tovenber 1952. TROLASTINED

- 1. SOKOLOV, V. S.
- 2. USSR 600
- L. Pine
- 7. Growth of pine spot-seeded in varying concentrations, Agrobiologiia, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

- 1. SOKOLOY, V. S.
- 2. USSR (600)
- 4. Botanists
- 7. In memory of N. N. Monteverde. Bot.zhur. 37 no. 6, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

BAKHTEYEV, F.Kh.; SOKOLOV, V.S., doktor biologicheskikh nauk, redaktor.

[Problems in the ecology, phylogeny and breeding of barleys (Hordeum L. sectio Crithe Döll)] Porblemy ekologii, filogenii i selektsii iachmener (Hordeum L. sectio Chithe Doll). Moskva, Izdvo Akademii nauk SSSR, 1953. 217 p. (MLRA 7:3) (Barley)

SOKOLOV, V. S., Dr.

Botany, Medical

Review of "Cultivation of modicinal plants." Apt. delo 2, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

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- 2. USSR (600)
- A. Tree Planting
- 7. Presowing preparation of seeds and scientific practices for sowing them. Les. khoz., 6, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

SOKOLOV, V.S.

Gentiana lutea L. and Arnica montana. Bot.shur. 39 no.5:759-763
S-0 '54.

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,
Leningrad.

(Arnica) (Gentians) (Botany, Medical)

USSR/Biology - Botany

Card 1/1

Pub. 124 - 9/40

SOURCE MODERNING

Authors

Sokolov. V. S.

Title

New valuable ensilage plants

Periodical: Vest. AN SSSR 1, 49-51, Jan 1955

Abstract

The discovery of new ensilage plants containing albumina, carbohydrates, mineral substances and primary vitamin A-carotin is announced by the Ministry of Agriculture of the USSR. The ensilage plants were found mostly in the Caucasus, Sakhalin and Altay regions.

Institution

Submitted

CIA-RDP86-00513R001652110001-4" APPROVED FOR RELEASE: 08/25/2000

SOKOLOV, V. S., prof., doktor biologicheskikh nauk

Medicinal plants at the service of the public health. Apt.delo 4
no.1:36-38 Ja-F '55

(PLANTS,
medicinal, prod. ir Russia)

SOKOLOV, V.S.

Rhaponticum carthemoides (Willd.) Iljin cultivated in Northern Rhaponticum Carthemoides (Will.) Iljin cultivated in Northern Rhaponticum Carthemoides (Will.) Iljin cultivated (Will.)

SOKOLOV, V.S., dektor biologicheskikh nauk, professor, redakter; SOKOLOV, S.Ya., doktor biologicheskikh nauk, professor, redakter; IL'IN, M.M., doktor biologicheskikh nauk, professor, redaktor; KONOVALOV, I.N., dektor biologicheskikh nauk, professor, redaktor; SATSYPEROVA, I.F., kandidat farmatsevticheskikh nauk, redaktor.

[New useful plants; recommendations of the all-Union conference on the introduction of new useful plants into cultivation] Newye polesnye rasteniia; rekemendatsii Vsesoiusnege seveshchaniia pe vvedeniiu nevykh polesnykh rastenii v kul'turu. Moskva, 1956. 67 p. (MLRA 9:6)

1. Akademiya nauk SSSR. Betanicheskiy institut.
(Plant introduction) (Plants, Cultivated)

SOKOLOV. V.S., doktor biologicheskikh nauk.

Cultivation of new commercial plants (Meeting in the V.L. Komarov Botanical Institute). Vest.AN SSSR 26 no.5:102-103 My '56.

(Botany, Economic)

Sokaker, V.S.

Category: USSR/General Division. Congresses. Meetings. Conferences. A-4

Abs Jour: Referat Zh.-Biol., No 6, 25 March 1957, 21359

Author : Sokolov, V.S.
Inst : not given

Title : The All-Union Conference on Introduction into Cultivation

of Useful Plants.

Orig Pub: Botan. zh., 1956, 41, No 5, 770-775

Abstract: A brief account of the conference from January 30 to February 3, 1956, in Leningrad; 400 individuals were present. In plenary sessions and 5 sections more than 160 reports were read, embracing very varied problems, beginning with evolution and ending with agrotechnique of plants, suggested for introduction and acclimatization in the USSR. The basic problem of the conference was the tabulation of new useful plants for prospective cultivation and wide experimentation. The conference discussed and passed a resolution in which it summarized the basic results

of the conference.

Card : 1/1

-17-

SOKOLOV, V.S., doktor biologicheskikh nauk.

Introduce cultivation of new and useful plants. Priroda 45 no.5: 109 My '56. (MLRA 9:8)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR. (Plants)

EYKHE, E.P.; SOKOLOV, V.S., professor, doktor biologicheskikh nauk, ot wetstvennyy redaktor; SHCHERBINA, T.S., redaktor izdatel*stva; KRUGLIKOVA, N.A., tekhnicheskiy redaktor

The state of the s

[Topinambou or Jerusalem artichoke; principles of its cultivation and its significance for the national economy] Topinambur ili zemliancia grusha; osnovy vozdelyvaniia i narodnokhoziaistvennoe shachenie. Moskva. Izd-vo Akademii nauk SSSR. 1957. 190 p. (MLRA 10:3)

1. Chlen-korrespondent Akademii nauk Letviyekoy SSR (for Bykhe)
(Jerusalem artichoke)

UTKIN, L.A.; GAMMERMAN, A.F.; NEVSKIY, V.A.; SOKOLOV, V.S., otvetstvennyy redaktor; TAMASOV, G.A., redaktor; LEBEDEV, D.V., otvetstvennyy redaktor; TAMASOV, G.A., redaktor izdatel'stva; TVERITINOVA, K.S., tekhnicheskiy redaktor

[Bibliography on medicinal plants; an index to Russian literature.

Manuscripts from the 17th to the 19th century, printed works from
1732 to 1954] Bibliografiia po lekarstvennym rasteniiam; ukazatel'
otechestvennoi literatury. Rukopisi XVII-XIX vv., pechatnye izdaniia
1732-1954 gg. Moskva, Izd-vo Akad. nauk SSSR, 1957. 724 p.

(Bibliography--Botany, Medical) (MIRA 10:4)

"Alkaloid-Verkommen und Dynamik der Alkaloid-Bildung in Pflanzen," Angewande Chemie, 7 Jan 1957, p. 66.
Abstract in German

Que carried Plante Grains. Incumino a decima Section Dell'

Tropical Cereslas

del Anter -bacacogiya, No. 5 , 1907, No. 20150 . dr. Jour.

LOTHOR

: Starovoytor, K.T.; Sokolov, V.S. : Inst. of Sociatist Agric.; AS Belorussian SSR : Certain roblems in Corn Agrotechny in the INST. TITLE

borthern Districts of Selorussian SSR.

BUIG. PUB.: V. ab.: Kukuruze v RESR, Minek, AN BESR, 1997, 233-

RESTRACT: Data gathered by the Institute of Socialistic; Agriculture of the Academy of Sciences Belorussian SSR in the study and development of methods of cultivating corn (sowing times and depth of planting of the seeds, mulching the plantings, methods of seed preparation, prob-

lems of maintenance of the plantings, the epplication of organic and mineral fertilizers, the bed areas and density of the stands, arti-ficial pollination, etc.) on the turf-Podzolic

1.70

SOKOLOV, V.S.

International Gongress on the Physiology and Biochemistry of Alkaloids. Izv. AN SSSR. Ser. biol. no.5:642-644 S-0 '57.

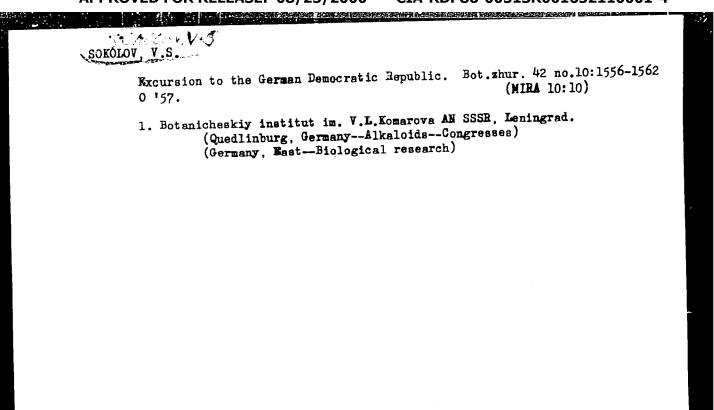
(QUEDLINBURG, GERMANY--ALKALOIDS—CONGRESSES)

SOKOLOV, V.S.

The work of Estonian botanists and silviculturists during the period from 1947 to 1956 and partially, during the preceding years. Bot. zhur. 42 no.1:146-153 Ja \$57.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652110001-4"

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IL'IN, M.M., otvetstvennyy red.; SHUKHOBODSKIY, B.A., otvetstvennyy red.;

VASIL'YEV, V.N., prof., red.; PIGULEVSKIY, G.V., prof., red.;

SOKOLOV, V.S., prof., red.; FEDOROV, A.A., prof., red.;

BRIKINA, M.A., red. izd-va; PEVZNER, R.S., tekhn. red.

[Present condition and prospects for the study of plant resources of the U.S.S.R.] Sostoianie i perspektivy izucheniia rastitel nykh resursov SSSR. Moskva, 1958. 510 p. (MIRA 11:9)

1. Akademiya nauk SSSE. Botanicheskiy institut. (Botany, Economic)

COUNTRY CATZGORY	:	USSR Cultivated Plants. Gereals.	М
T. St.	:	379 161., 66.15, 1058, Po.63763	
L.Mari	:	Lapto, A. I., Sokolov, V. S.	
IMDI. TITLE	:	Width of the Space Between the Rows in Checkrow	Planting
CRIG. PUR.	:	Kukuruza, 1953, No. 1, 41-42	
ARU M. 60	:	Ne abstract.	
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▼ USSR / Cultivated Plants. Grains. Legumes. Tropical M-1Cereals.

: Ref Zhur - Biologiya, No 2, 1959, No. 6234 Abs Jour

: Lappo, A. I.; Sokolov, V. S.

: Bielorussia Agricultural Institute : Depth of Cultivation Between Rows of Corn Author

Sowings in the Non-Chernozem Belt Inst Title

: Vest. s.-kh. nauki, 1958, No 4, 45-48

Orig Pub

: Experiments were carried out at the Bielorussian Agricultural Institute on sandy loam, medium and heavy argillaceous loams in 1955-1957. Abstract Minnesota 13 extra corn was sown according to the square-pocket method (70 x 70 cm). Cultivation was carried out three times in two directions. Deep mellowing on 10-12 cm during the whole period gives negative results.

Card 1/2

USSR / Cultivated Plants. Grains. Legumes. Tropical M-1APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652110001-4" : Ref Zhur - Biologiya, No 2, 1959, No. 6234

> best results were obtained with shallow cultivation on 4-6 cm. Hilling gave positive results only on light soils during a moist summer; it is harmful on heavy soils. The main reason for the lowering of yields in case of cultivation between rows is the damage inflicted to the roots. It is recommended to use shallow cultivation which is sufficient for destroying weeds ans safe for corn roots. -- B. I. Kazachek

> > Barrier Committee of the same of the same

Card 2/2

(MIRA 11:10)

SOKOLOV, V.S.; SANDINA, I.B.; KOLPIKOV, V.A.; MEDVEDEV, P.F. Experiment in raising Heracleum Sosnowskyi Mend. as a new silage plant in Leningrad Province. Trudy Bot. inst. Ser.6:244-261

(Leningrad Province--Cow parsnip)

CIA-RDP86-00513R001652110001-4" APPROVED FOR RELEASE: 08/25/2000

SOKOLOV, V.S.; SAAKOV, S.G.

A visit to the Bulgarian People's Republic. Bot. zhur. 43 no. 5:736(MIRA 11:7)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,
Leningrad.

(Bulgaria-Botany, Economic-Research)

SOKOLOV, V.S.

Immediate tasks in the introduction of new useful plants. Trudy

Bot.inst.Ser.6 no.7:22-27 '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR. (BIN), Leningrad.

(Plant introduction)

SOKOLOV, V.S.

Introduction of Leuzea carthamoides DC. Trudy Bot.inst.Ser.6 no.7:295-297 '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR (BIN), Leningrad. (Leningrad Province--Leuzea)

SOKOLOV, V.S.

International Conference on Medicinal and Useful Plants. Izv. AN SSSR Ser.biol. 24 no.1:147-151 Ja-F '59. (MIRA 12:2) (WAGENINGEN-BOTANY, MEDICAL-COMBRESSES)

SOKOLOV. V.S.

International Conference on Medicinal and Useful Plants in the Netherlands. Bot. zhur. 44 no.1:145-148 Ja '59. (MIRA 12:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad. (Wageningen--Botany, Economic--Congresses)

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1917 - N. 3. 3. 1918 1919 191

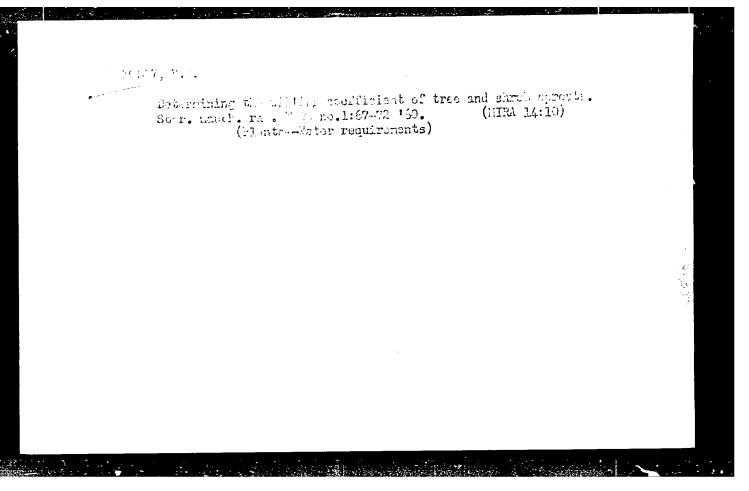
SOKOLOV, V.S.

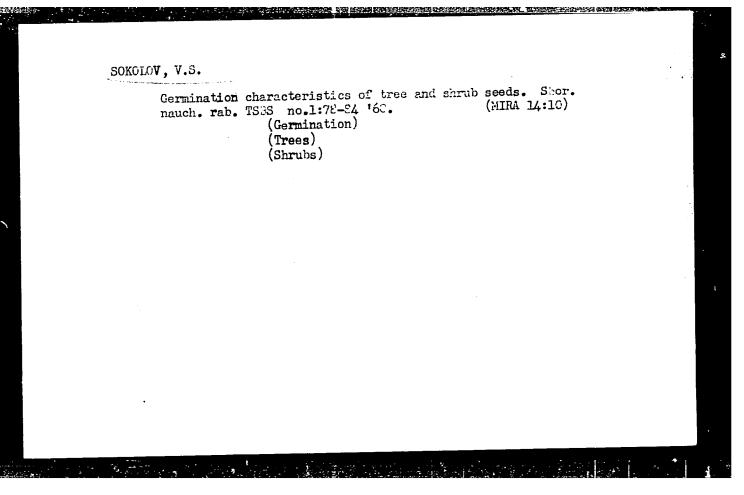
At the 13th Symposium of the Society of Experimental Biology, Reading (England), 1958. Bot.zhur. 44 no.11:1682-1687 N '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, Leningrad.
(Botany--Congresses)

Some biological features of the germination of seeds of trees and shrubs. Vestsi AN BSSR. Ser.biial.nav. no.1:40-47 160.

(GERMINATION)





SOKOLOV, V.S. [Sokalau, V.S.]

Rifect of soil moisture on the germination of tree and shrub seeds.
Vestsi AN BSSR. Ser. bital. nav. no. 4:26-32 '60. (MIRA 14:1)

(Trees) (Germination) (Soil moisture)

SOKOLOV, V.S., kand.biologicheskikh nauk

Soils and fertilizers on corn fields with record-breaking yields.
Zemledelie 8 no.6:71-73 Je'60. (MIRA 13:10)

1. Belorusskiy nauchno-issledovatel'skiy institut zemledeliya. (Corn (Maize)--Fertilizers and manures)

SOKOLOV, V.S., doktor biologicheskikh nauk; IL'IN, G.S., kand. biologicheskikh

Second International Symposium on the Biochemistry and Physiology of Alkaloids. Vest.AN SSSR 30 no.8:106-107 Ag '60. (MIRA 13:8)
(Alkaloids)

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SOKOLOV, V.S.

Effect of gibberellin on the growth of seedlings in some varieties of trees and shrubs. Sbor. nauch. rab. TSBS no.2:25-38 '61. (MIRA 15:7) (Gibberellin) (Woody plants)

SOKOLOV, V.S.; NIKITIN, A.A.; FEDOROV, Al.A.

Rhaponticum carthamoides (DC) Iljin as a valuable medicinal plant.
Trudy Bot. inst. Ser. 5 no.9:347-363 '61. (MIRA 15:1)
(Sayan Mountains--Centaurea) (Stimulants)

SOKOLOV, V.S.; SATSYPEROVA, I.F.

Plants as sources of new modicinal preparations and their introduction into cultivation. Trudy Len. khim.-farm. inst, 12:351-359 '61. (MIRA 15:3)

1. Botanicheskiy institut imeni Komarova AN SSSR i kafedra farmakognozii i botaniki Leningradskogo khimiko-farmatsevti-cheskogo instituta.

(BOTAHY, MEDICAL) (PLANT INTRODUCTION)

SOKOLOV, V.S.; IL'IN, G.S. Second symposium on alkaloid biochemistry and physiology. Izv. AN SSSR. Ser. biol. 26 no.1:158-162 Ja-F '61. (MIRA 14:3) (ALKALOIDS) (PLANT PHYSIOLOGY)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652110001-4"

SOKOLOV, V.S.; IL'IN, G.S.

Second symposium on alkalcid biochemistry and physiology in the German Democratic Republic. Bot. zhur. 46 no.4:608-612 Ap 161. (MIRA 14:3)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, Leningrad, i Institut biokhimii im. M.N.Bakha Akademii nauk SSSR, Moskva.

(Plant physiology) (Germany, East-Alkaloids-Research)

SOKOLOV, V.S. [Sokalau, V.S.]

Effect of gibberellin on seed germination and seedling growth in trees and shrubs. Vestsi AN BSSR.Ser.biial.nav. no.2:27-34 '62. (WCODY PLANTS)

(GIBBERELLIN) (GERMINATION)

SOKOLOV, V.S., doktor biolog.nauk; SOKOLOV, P.D., kand.biolog.nauk

Study and use of tanning plants. Vest. AN SSSR 32 no.5:123-124
My '62. (MIRA 15:5)

(Tanning materials)

SOKOLOV, V.S.; SATSYPEROVA, I.F.

Protection of medicinal plants concerns the entire nation. Bot. zhur. 47 no.2:218-222 F '62. (MIRA 15:3)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. (BOTANY, MEDICAL)

SCKOLOV, V.S.

Botany in the service of the building of communism. Bot.zhur.
47 no.4:453-460 Ap '62. (MIRA 15:8)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. (Botanical research)

SOKOLOV, V.S.; SATSYPEROVA, I.F.

Some problems of the research and practical work with medicinal plants in the Karakh S.S.R. True, Inst.bot.AN Kazakh.SSR 17:146-152 63.

(MIRA Ling

SOKOLOV, V.S.

First symposium on medicinal and aromatic plants of the socialist countries. Bot. zhur. 48 no.4:617-621 Ap 163. (MIRA 16:5)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad. (Botany, Medical) (Aromatic plants)

SOKOLOV, V.S.; MEDVEDEV, P.F.

Seminar on new silage forage plants. Bot. zhur. 48 no.9: 1404-1406 S '63. (MIRA 16:11)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.